

Bill of Materials

TI DESIGNS

TIDA-0331

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Alternate Part	PCB Footprint	Note
1	1	C1	0.47uF	CAP, CERM, 0.47uF, 50V, +/-10%, X7R, 1206	AVX	12065C474KAT2A		1206	
2	1	C2	330uF	CAP, AL, 330uF, 25V, +/-20%, 0.16 ohm, SMD	Nippon Chemi-Con	EMZA250ADA331MHA0G		HA0	
3	3	C3, C6, C9	1000pF	CAP, CERM, 1000pF, 50V, +/-10%, X7R, 0805	AVX	08055C102KAT2A		0805	
4	1	C4	0.1uF	CAP, CERM, 0.1uF, 25V, +/-10%, X7R, 0805	AVX	08053C104KAT2A		0805	
5	3	C5, C7, C8	4.7uF	CAP, CERM, 4.7uF, 25V, +/-10%, X5R, 0805	TDK	C2012X5R1E475K125AB		0805	
6	1	D1	Red	LED, Red, SMD	Lite-On	LTST-C190CKT		Red LED, 1.6x0.8x0.8mm	
7	1	D2	20V	Diode, Schottky, 20V, 3A, SMA	Diodes Inc.	B320A-13-F		SMA	
8	1	D3	18V	Diode, TVS, Uni, 18V, 600W, SMB	Diodes Inc.	SMBJ18A-13-F		SMB	
9	2	J1, J2		Terminal Block, 2x1, 5.08mm, TH	TE Connectivity	282841-2		10.16x15.2x9mm	
10	1	Q1	0.3V	Transistor, NPN, 20V, 0.2A, SOT-323	Diodes Inc.	MMST3904-7-F		SOT-323	
11	1	R1	24.3k	RES, 24.3k ohm, 1%, 0.125W, 0805	Vishay-Dale	CRCW080524K3FKEA		0805	
12	1	R2	100k	RES, 100k ohm, 1%, 0.125W, 0805	Vishay-Dale	CRCW0805100KFKEA		0805	
13	1	R3	34.8k	RES, 34.8k ohm, 1%, 0.125W, 0805	Vishay-Dale	CRCW080534K8FKEA		0805	
14	1	R4	143k	RES, 143k ohm, 1%, 0.125W, 0805	Vishay-Dale	CRCW0805143KFKEA		0805	
15	1	R6	12.1k	RES, 12.1k ohm, 1%, 0.125W, 0805	Vishay-Dale	CRCW080512K1FKEA		0805	
16	1	R7	274k	RES, 274k ohm, 1%, 0.125W, 0805	Vishay-Dale	CRCW0805274KFKEA		0805	
17	1	R8	475k	RES, 475k ohm, 1%, 0.125W, 0805	Vishay-Dale	CRCW0805475KFKEA		0805	

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18	1	R9	20k	RES, 20k ohm, 5%, 0.125W, 0805	Vishay-Dale	CRCW080520K0JN EA		0805	
19	1	S1		Switch, Push Button, SMD	Alps	SKRKAEE010		2.9x2x3.9mm SMD	
20	2	TP1, TP4	Red	Test Point, TH, Multipurpose, Red	Keystone	5010		Keystone5010	
21	4	TP2, TP3, TP5, TP6	White	Test Point, TH, Multipurpose, White	Keystone	5012		Keystone5012	
22	2	TP7, TP8	Black	Test Point, TH, Multipurpose, Black	Keystone	5011		Keystone5011	
23	2	TP9, TP10	SMT	Test Point, SMT, Compact	Keystone	5016		Testpoint_Key	
24	1	U1		4.5-18V eFuse with Precision Current	Texas Instruments	TPS25921AD		D0008A	

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